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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	2 set /1-5 cum	21.19	6	6

Suretha. N.K
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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2020-05-23-86** **Date: 05-01-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)
Agency	:	M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/184/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-20
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/01/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	16.8	21.0
2	B	100.03	165.49	8.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	8.815	7854	145.1	18.5	18.5	23.1

Note:
The results pertain to the samples received and tested.
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CIVIL Pro BANGALORE Sig. Date.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF PRECAST COVER SLAB

Date: 26-01-20

Lab ID	:	**CP-2020-05-23-86**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)
Agency	:	M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/184/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-01-20
Sample Type /Size	:	Precast Cover Slab, 250mm Thick
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	25/01/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	175.51	250.51	3.116	24189	240.9	10.0	9.3	11.6
2	Cover Slab-2	175.49	250.5	3.124	24183	242.3	10.0	9.3	11.6
3	Cover Slab-3	175.50	250.49	3.116	24186	241.3	10.0	9.3	11.6

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-05-23-86** **Date: 06-01-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)

Agency : M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/184/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-01-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 04-01-20

Environmental Conditions during test : Temperature: 26˚C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	_
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Certificate No.: TC-5548

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2020-05-23-86** **Date: 06-01-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)
Agency	:	M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/184/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	04-01-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-05-23-86** **Date: 06-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2020-05-23-86** **Date: 06-01-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)
Agency	:	M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/184/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	04-01-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-05-23-86** **Date: 06-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-23-86** **Date: 06-01-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)

Agency : M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094

Customer Reference : BBMP/EE/BTP/WO/184/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-01-20

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 04-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-23-86** **Date: 06-01-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-05-23-86** **Date: 07-01-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)
Agency	:	M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/184/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-01-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-05-23-86 Date: 07-01-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.17	_

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-05-23-86 **Date: 01-02-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)

Agency : M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/184/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-01-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 04-01-20

Environmental Conditions during test : Temperature: 26˚C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

Note:
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Samples will be disposed after 90 days from the date of issue of test certificate

Sunthi N K
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CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF HOLLOW BLOCKS

Lab ID	:	**CP-2020-05-23-86** **Date: 08-01-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)
Agency	:	M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/184/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-20
Sample Type/Size	:	Hollow blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	05-01-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	150	201	12120	26.100	2153.4	2122.7	Not less than $1500Kg/m^3$
2	401	151	200	12110	25.810	2131.3		
3	400	151	202	12201	25.42	2083.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.200	24.260	3.87	3.58	Shall not be more than 10% by mass
2	27.120	26.360	2.88		
3	25.840	24.850	3.98		

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Lab ID : **CP-2020-05-23-86** **Date: 08-01-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	151	203	
2	403	150	201	
3	402	150	200	
4	401	151	202	
5	400	152	201	
6	402	150	200	
7	400	150	202	
8	401	152	202	
9	402	151	201	
10	401	152	203	
11	400	150	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
12	402	150	202	
13	403	152	201	
14	401	151	200	
15	400	150	203	
16	402	150	202	
17	403	151	201	
18	401	152	201	
19	400	150	200	
20	401	151	200	
Average of 20	**401**	**151**	**201**	

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Lab ID : CP-2020-05-23-86 **Date: 08-01-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	151	60551	335.1	5.5	5.2
2	403	150	60450	315.8	5.2	
3	402	150	60300	302.1	5.0	
4	401	151	60551	328.5	5.4	
5	400	152	60800	301.9	5.0	
6	402	150	60300	312.8	5.2	
7	400	150	60000	312.7	5.2	
8	401	152	60952	321.5	5.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Hollow(open and closed cavity) load bearing unit Compressive strength		
Grade	Minimum average	Minimum Individual units.
A (3.5)	3.5 N/mm^2	2.8 N/mm^2
A (4.5)	4.5 N/mm^2	3.6 N/mm^2
A (5.5)	5.5 N/mm^2	4.4 N/mm^2
A (7.5)	7.5 N/mm^2	5.6 N/mm^2
A (8.5)	8.5 N/mm^3	7.0 N/mm^2
A (10.0)	10.0 N/mm^4	8.0 N/mm^2
A (12.5)	12.5 N/mm^5	10.0 N/mm^2
A (15.0)	15 N/mm^2	12.0 N/mm^2
B (3.5)	3.5 N/mm^2	2.80 N/mm^3
B (5.0)	5.0 N/mm^2	4.0 N/mm^4

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-05-23-86** **Date: 21/01/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)
Agency	:	M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/184/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	PCC	M15	14/01/2020	21/01/2020	149.64 X 150.96 X 149.89	22590	8.530	276.6	12.2	12.6
2	PCC	M15	14/01/2020	21/01/2020	149.22 X 151.35 X 150.28	22585	8.150	280.6	12.4	
3	PCC	M15	14/01/2020	21/01/2020	150.19 X 151.02 X 150.43	22681	8.316	294.8	13.0	

Note:

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-23-86** **Date: 11/02/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)

Agency : M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/184/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	14/01/2020	11/02/2020	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M15	14/01/2020	11/02/2020	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M15	14/01/2020	11/02/2020	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-23-86** **Date: 21/01/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)

Agency : M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/184/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	14/01/2020	21/01/2020	149.64 X 150.96 X 149.89	22590	8.530	276.6	12.2	12.6
2	PCC	M15	14/01/2020	21/01/2020	149.22 X 151.35 X 150.28	22585	8.150	280.6	12.4	
3	PCC	M15	14/01/2020	21/01/2020	150.19 X 151.02 X 150.43	22681	8.316	294.8	13.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-23-86** **Date: 11/02/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)

Agency : M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/184/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/01/2020	11/02/2020	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M15	14/01/2020	11/02/2020	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M15	14/01/2020	11/02/2020	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/01/2020

Lab ID	:	CP-2020-05-23-86
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)
Agency	:	M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/184/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	14/01/2020	21/01/2020	149.64 X 150.96 X 149.89	22590	8.530	276.6	12.2	12.6
2	PCC	M15	14/01/2020	21/01/2020	149.22 X 151.35 X 150.28	22585	8.150	280.6	12.4	
3	PCC	M15	14/01/2020	21/01/2020	150.19 X 151.02 X 150.43	22681	8.316	294.8	13.0	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/02/2020

Lab ID	:	CP-2020-05-23-86
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)
Agency	:	M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094
Customer's Reference	:	BBMP/EE/BTP/WO/184/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/01/2020	11/02/2020	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	PCC	M15	14/01/2020	11/02/2020	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	PCC	M15	14/01/2020	11/02/2020	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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Certificate No.: TC-5548

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-05-23-86 **Date: 26-01-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No.10 (Doddabommasandra)

Agency : M/s R.G Constructions, (Prop O. Krishnamurthy, #06, 4th Cross Road, Pillappa Ramaiah Layout, Nagashettyhalli, Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/184/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-01-20

Sample Type /Size : Precast Cover Slab, 100mm Thick

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/01/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:
The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Sunitha - NK
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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